



Compliance Coordinator
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

**NPDES PERMIT #NV0024228 – DISCHARGE MONITORING REPORTS
3RD QUARTER 2018
WEIR CONSTRUCTION DEWATERING TREATMENT
NEVADA ENVIRONMENTAL RESPONSE TRUST, HENDERSON, NEVADA**

Dear Compliance Coordinator:

October 25, 2018

As required by the Finding and Order issued on April 12, 2016 by the Nevada Division of Environmental Protection (NDEP), Bureau of Industrial Site Cleanup (BISC), the Nevada Environmental Response Trust (NERT or the Trust) maintains NPDES Permit #NV0024228 for discharge of perchlorate-treated water near the Las Vegas Wash (LVW) that is extracted during dewatering activities associated with construction of two weirs (the Sunrise Mountain Weir and the Historic Lateral Weir) by the Southern Nevada Water Authority (SNWA) in the Henderson, Nevada area.

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The NDEP, Bureau of Water Pollution Control (BWPC) issued NPDES Permit #NV0024228 on August 11, 2017 and the permit became effective on August 14, 2017. The attached items reflect information associated with the permit's July, August, and September 2018 Discharge Monitoring Reports (DMRs). Ramboll US Corporation (Ramboll), on behalf of the Trust, has submitted the DMRs via the United States Environmental Protection Agency (USEPA) NetDMR system per the Subscriber Agreement signed on September 25, 2017.

The weir dewatering treatment plant began operating on January 2, 2018. The treatment plant began receiving water from the Historic Lateral Weir construction site via the Historic Lateral Pump Station (HLPS) on January 2, 2018. The treatment plant began receiving water from the Sunrise Mountain Weir construction site via the Sunrise Mountain Pump Station (SMPS) on January 8, 2018. The HLPS stopped receiving water from the Historic Lateral Weir construction site following the completion of dewatering activities on June 6, 2018, and the SMPS stopped receiving water from the Sunrise Mountain Weir construction site following the completion of dewatering activities on August 14, 2018.

SNWA gave formal notice to the Trust on August 24, 2018, that they will no longer send construction nuisance water to the weir dewatering treatment plant. The start of decommissioning the plant began shortly thereafter. Potable water from the City of Henderson is being used to flush out the

equipment and pipelines associated with the pump stations and treatment plant. Since August 14, 2018, only periodic influent and effluent flows have occurred as a result of decommissioning operations, and NPDES-required samples were collected on those days, as applicable. Due to limited flows on those days, 6-part composite samples over 24-hours were not collected, but representative flow-based grab samples were collected and composited to represent the volume of water at each applicable permitted sample location. On most days since August 14, 2018, flow has been recirculated within the plant in a closed loop system to keep equipment in working order and no NPDES samples were collected. Due to the lack of backwash waste water during plant decommissioning, samples were no longer collected from sample location 002 after August 14, 2018. It is anticipated that the plant will be fully decommissioned by 2nd Quarter of 2019 and this NPDES permit will be terminated.

During the reporting period, the ion exchange (IX) perchlorate treatment processes demonstrated compliance with the daily maximum perchlorate concentration limitation of 18 micrograms per liter (µg/L).

Included with this correspondence as Attachment 1 are summaries of analytical and/or flow data for Sample Locations 001 (influent), 002 (an internal monitoring point), 003 (effluent), and 004 (the end of mixing zone ambient wash water quality monitoring point) that support the 3rd Quarter 2018 DMRs. The associated analytical reports are supplied in electronic format on a CD included in Attachment 2.

One reportable event occurred during 3rd Quarter 2018, as described below:

- On September 27, 2018 at approximately 11:30am, it was discovered that approximately 600 gallons of water was released to the ground outside of containment from failure of the SNWA plug on the 24-inch pipeline entering the SMPS. There was no flow from the immediate area and no discharge to a waterbody or potential for public contact. Upon discovery, the plug was replaced, and a vac-truck pumped up the standing water for treatment in the plant. A new blind flange has been installed to further close the pipe opening until the pipe is removed during system decommissioning. A grab sample of the water released was analyzed at the in-house laboratory for perchlorate. Results indicated a concentration of approximately 5 ug/L perchlorate.

Should you have any questions concerning this report, please contact Kimberly Kuwabara at (510) 420-2525 or kkuwabara@ramboll.com.

Yours Sincerely,



Kimberly Kuwabara, MS
Senior Managing Consultant
CEM #2353, expires 3/20/19

Attachments

Attachment 1: Summary of Supporting Analytical and Flow Data
Attachment 2: Supporting Analytical Reports (*on CD*)

ec: James Dotchin, Bureau of Industrial Site Cleanup, NDEP



Wei quan Dong, Bureau of Industrial Site Cleanup, NDEP
Nikita Lingenfelter, Bureau of Water Pollution Control, NDEP
Patrick Mohn, Bureau of Water Pollution Control, NDEP
Alison Fong, U.S. Environmental Protection Agency
Nevada Environmental Response Trust
Tanya O'Neill, Foley and Lardner LLP
John Pekala, Ramboll
Dan Pastor, Tetra Tech, Inc.

**NPDES Permit NV0024228 – 3rd Quarter 2018 DMRs
CEM Certification**

Responsible Certified Environmental Manager (CEM) for this project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

Kimberly Kuwabara
Kimberly Kuwabara, MS
Senior Managing Consultant

10/25/2018
Date

Certified Environmental Manager
Ramboll US Corporation
CEM Number: 2353
CEM Expiration Date: March 20, 2019



ATTACHMENT 1
SUMMARY OF SUPPORTING ANALYTICAL AND FLOW DATA

NPDES Permit NV0024228 - 3rd Quarter 2018 -

Sample Location 001, Sample Location 002, Sample Location 003 Flow Data

Date	Sample Location 001 - Influent Flow Rate (gallons/min)	Sample Location 002 - Backwash to Remix Flow, total (gallons/day)	Sample Location 003 - Effluent Flow, total (gallons/day)
July 2018 Flow Data			
7/1/2018	2,167	71,400	3,134,300
7/2/2018	2,168	91,400	3,193,900
7/3/2018	2,194	74,800	3,167,700
7/4/2018	2,167	47,500	3,135,800
7/5/2018	2,180	49,300	3,154,200
7/6/2018 ¹	2,255	54,200	3,194,700
7/7/2018 ¹	2,176	80,900	3,140,500
7/8/2018	2,199	50,300	3,201,900
7/9/2018	2,179	103,500	3,188,300
7/10/2018	1,988	81,000	2,936,700
7/11/2018 ¹	2,397	91,000	3,466,400
7/12/2018	2,209	85,100	3,241,300
7/13/2018	2,173	74,100	3,210,900
7/14/2018	2,156	86,300	3,178,000
7/15/2018	2,215	111,900	3,238,600
7/16/2018	2,150	106,200	3,174,100
7/17/2018	2,157	118,200	3,199,300
7/18/2018	2,141	42,300	3,081,500
7/19/2018	2,134	103,500	3,159,700
7/20/2018	2,180	85,800	3,193,500
7/21/2018	2,144	77,000	3,138,300
7/22/2018	2,094	103,900	3,085,400
7/23/2018	2,086	77,100	3,071,800
7/24/2018 ¹	2,098	60,200	3,050,100
7/25/2018	2,092	69,400	3,111,300
7/26/2018	2,093	75,500	3,134,200
7/27/2018	2,094	78,300	3,109,900
7/28/2018	2,087	80,000	3,046,600
7/29/2018	2,094	89,600	3,128,800
7/30/2018	2,112	78,500	3,109,900
7/31/2018	2,127	74,800	3,169,700
Unit	Maximum gallons/minute:	Total gallons/month:	Total Mgal:
Permit Limit	≤6,900	M&R	M&R
Amount	2,397	2,473,000	97.7

NPDES Permit NV0024228 - 3rd Quarter 2018 -

Sample Location 001, Sample Location 002, Sample Location 003 Flow Data

Date	Sample Location 001 - Influent Flow Rate (gallons/min)	Sample Location 002 - Backwash to Remix Flow, total (gallons/day)	Sample Location 003 - Effluent Flow, total (gallons/day)
August 2018 Flow Data			
8/1/2018	2,119	5,000	3,146,400
8/2/2018 ¹	2,042	50700	3,000,400
8/3/2018 ¹	2,023	46400	2,907,900
8/4/2018	2,009	62800	2,997,600
8/5/2018	1,929	95500	2,856,400
8/6/2018	1,800	85600	2,655,100
8/7/2018 ¹	961	29200	1,312,700
8/8/2018 ¹	700	10900	899,500
8/9/2018 ¹	775	12900	1,004,100
8/10/2018 ¹	813	4500	1,051,900
8/11/2018 ¹	813	14800	1,055,200
8/12/2018 ¹	879	5700	1,100,700
8/13/2018 ¹	891	14700	1,059,100
8/14/2018 ²	644	0	802,300
8/15/2018*	0	0	0
8/16/2018*	0	0	0
8/17/2018*	0	0	0
8/18/2018*	0	0	0
8/19/2018*	0	0	0
8/20/2018*	0	0	0
8/21/2018*	0	0	0
8/22/2018*	0	0	0
8/23/2018*	0	0	0
8/24/2018*	0	0	0
8/25/2018*	0	0	0
8/26/2018*	0	0	0
8/27/2018*	0	0	0
8/28/2018 ³	17	0	23000
8/29/2018*	0	0	0
8/30/2018*	0	0	0
8/31/2018*	0	0	0
Unit	Maximum gallons/minute:	Total gallons/month:	Total Mgal:
Permit Limit	≤6,900	M&R	M&R
Amount	2,119	438,700	25.9

NPDES Permit NV0024228 - 3rd Quarter 2018 -

Sample Location 001, Sample Location 002, Sample Location 003 Flow Data

Date	Sample Location 001 - Influent Flow Rate (gallons/min)	Sample Location 002 - Backwash to Remix Flow, total (gallons/day)	Sample Location 003 - Effluent Flow, total (gallons/day)
September 2018 Flow Data			
9/1/2018*	0	0	0
9/2/2018*	0	0	0
9/3/2018*	0	0	0
9/4/2018*	0	0	0
9/5/2018*	0	0	0
9/6/2018*	0	0	0
9/7/2018*	0	0	0
9/8/2018*	0	0	0
9/9/2018*	0	0	0
9/10/2018*	0	0	0
9/11/2018 ⁴	13	0	0
9/12/2018 ⁴	26	0	36800
9/13/2018 ⁵	3	0	0
9/14/2018*	0	0	0
9/15/2018*	0	0	0
9/16/2018*	0	0	0
9/17/2018*	0	0	0
9/18/2018*	0	0	0
9/19/2018 ⁵	3	0	0
9/20/2018 ⁵	1	0	0
9/21/2018 ⁵	3	0	0
9/22/2018*	0	0	0
9/23/2018*	0	0	0
9/24/2018 ⁵	8	0	0
9/25/2018*	0	0	0
9/26/2018 ^{5,6}	3	0	24800
9/27/2018*	0	0	0
9/28/2018*	0	0	0
9/29/2018*	0	0	0
9/30/2018*	0	0	0
Unit	Maximum gallons/minute:	Total gallons/month:	Total Mgal:
Permit Limit	≤6,900	M&R	M&R
Amount	26	-	0.1

NPDES Permit NV0024228 - 3rd Quarter 2018 -

Sample Location 001, Sample Location 002, Sample Location 003 Flow Data

Date	Sample Location 001 - Influent Flow Rate (gallons/min)	Sample Location 002 - Backwash to Remix Flow, total (gallons/day)	Sample Location 003 - Effluent Flow, total (gallons/day)
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Notes

M&R = monitor and report

Mgal = million gallons

* No influent flows or effluent discharges occurred. Recirculated flows within the plant in a closed loop system only.

¹ Flows recirculated through plant during this period.

² August 14: Flows into SMPS turned off and subsequent plant operation included only recirculation of flows within the plant in a closed loop system.

³ August 28: Water stored in the HLPS tanks was pumped from the HLPS to the CWTP. Samples were collected from Sample Locations 001 and 003.

⁴ September 11 and 12: Water in the pipeline between HLPS and CWTP was treated and flushed out when municipal water was flushed through the pipeline. Samples were collected from Sample Locations 001 and 003.

General Note: The weir dewatering treatment plant stopped receiving influent water from weir construction activities on August 14, 2018. Plant decommissioning started soon thereafter. Potable water from the City of Henderson is being used to flush out the equipment and pipelines associated with the pump stations and treatment plant. Since August 14, 2018, only periodic influent and effluent flows have occurred as a result of decommissioning operations, and NPDES-required samples were collected on those days, as applicable. On most days since August 14, 2018, flow has been recirculated within the plant in a closed loop system to keep equipment in working order and no NPDES samples were collected.

⁵ Influent flows represent trucked municipal water from the HLPS pipeline decommissioning to the CWTP. The volume of water pumped into the plant by truck was estimated using the truck tank capacity. The water was stored and recirculated within the plant in a closed loop system. No effluent discharges occurred.

⁶ September 26: Recirculated water was discharged through effluent outfall 003. Samples of recirculated water were collected from Sample Locations 001 and 003.

NPDES Permit NV0024228 - 3rd Quarter 2018 - Influent (Sample Location 001)
Analytical Summary

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
7/2/2018	001	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3
8/6/2018	001	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3-D
9/12/2018	001	Ammonia (as N)	0.627	mg/l	0.100	mg/l	SM4500-NH3-D
7/2/2018	001	Dissolved Solids (total)	2660	mg/l	10.0	mg/l	SM2540C
7/16/2018	001	Dissolved Solids (total)	2640	mg/l	10.0	mg/l	SM2540C
7/30/2018	001	Dissolved Solids (total)	2660	mg/l	10.0	mg/l	SM2540C
8/6/2018	001	Dissolved Solids (total)	2840	mg/l	10.0	mg/l	SM2540C
8/28/2018	001	Dissolved Solids (total)	1460	mg/l	10.0	mg/l	SM2540C
9/12/2018	001	Dissolved Solids (total)	1050	mg/l	5.00	mg/l	SM2540C
9/26/2018	001	Dissolved Solids (total)	2260	mg/l	10.0	mg/l	SM2540C
7/2/2018	001	Field pH	7.7	SU		SU	FIELD SAMPLING
7/16/2018	001	Field pH	7.7	SU		SU	FIELD SAMPLING
7/30/2018	001	Field pH	7.8	SU		SU	FIELD SAMPLING
8/6/2018	001	Field pH	7.4	SU		SU	FIELD SAMPLING
8/28/2018	001	Field pH	8.5	SU		SU	FIELD SAMPLING
9/12/2018	001	Field pH	8.1	SU		SU	FIELD SAMPLING
9/26/2018	001	Field pH	8.4	SU		SU	FIELD SAMPLING
7/2/2018	001	Nitrate as N	6.77	mg/l	0.110	mg/l	E300
8/6/2018	001	Nitrate as N	6.56	mg/l	0.0550	mg/l	E300
9/12/2018	001	Nitrate as N	0.130	mg/l	0.0550	mg/l	E300
7/2/2018	001	Nitrate as NO3	30.0	mg/l	0.500	mg/l	E300
8/6/2018	001	Nitrate as NO3	29.0	mg/l	0.250	mg/l	E300
9/12/2018	001	Nitrate as NO3	0.574	mg/l	0.250	mg/l	E300
7/2/2018	001	Nitrate Nitrite as N	6.77	mg/l	0.140	mg/l	NO2NO3_Calc
8/6/2018	001	Nitrate Nitrite as N	6.56	mg/l	0.0550	mg/l	NO2NO3_Calc
9/12/2018	001	Nitrate Nitrite as N	0.130 J	mg/l	0.0550	mg/l	NO2NO3_Calc
7/2/2018	001	Nitrite as N	<0.140	mg/l	0.140	mg/l	E300
8/6/2018	001	Nitrite as N	<0.0250	mg/l	0.0250	mg/l	E300
9/12/2018	001	Nitrite as N	<0.0250	mg/l	0.0250	mg/l	E300
7/2/2018	001	Nitrogen, Total	6.77	mg/l	0.110	mg/l	NTOTAL
8/6/2018	001	Nitrogen, Total	6.56	mg/l	0.110	mg/l	NTOTAL
9/12/2018	001	Nitrogen, Total	0.926	mg/l	0.110	mg/l	NTOTAL
7/2/2018	001	Perchlorate	960	ug/l	95.0	ug/l	E314.0
7/16/2018	001	Perchlorate	1020	ug/l	95.0	ug/l	E314.0
7/30/2018	001	Perchlorate	901	ug/l	95.0	ug/l	E314.0
8/6/2018	001	Perchlorate	1100	ug/l	95.0	ug/l	E314.0
8/28/2018	001	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
9/12/2018	001	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
9/26/2018	001	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
7/2/2018	001	Phosphorus (total)	<0.0250	mg/l	0.0250	mg/l	E365.3
8/6/2018	001	Phosphorus (total)	0.0488 J	mg/l	0.0250	mg/l	E365.3
9/12/2018	001	Phosphorus (total)	0.123	mg/l	0.0250	mg/l	E365.3
7/2/2018	001	Suspended solids (total)	1.10	mg/l	0.500	mg/l	SM2540D
7/16/2018	001	Suspended solids (total)	4.40	mg/l	0.500	mg/l	SM2540D
7/30/2018	001	Suspended solids (total)	1.80	mg/l	0.500	mg/l	SM2540D

NPDES Permit NV0024228 - 3rd Quarter 2018 - Influent (Sample Location 001)
Analytical Summary

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
8/6/2018	001	Suspended solids (total)	33.5	mg/l	0.500	mg/l	SM2540D
8/28/2018	001	Suspended solids (total)	193	mg/l	5.00	mg/l	SM2540D
9/12/2018	001	Suspended solids (total)	68.0	mg/l	1.67	mg/l	SM2540D
9/26/2018	001	Suspended solids (total)	5.30	mg/l	0.500	mg/l	SM2540D
7/2/2018	001	Total Kjeldahl Nitrogen	<0.100	mg/l	0.100	mg/l	E351.2
8/6/2018	001	Total Kjeldahl Nitrogen	<0.100	mg/l	0.100	mg/l	E351.2
9/12/2018	001	Total Kjeldahl Nitrogen	0.796	mg/l	0.100	mg/l	E351.2

Notes:

ug/l = micrograms per liter

mg/l = milligrams per liter

SU = standard units

J = Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value.

The weir dewatering treatment plant stopped receiving influent water from weir construction activities on August 14, 2018. Plant decommissioning started soon thereafter. Potable water from the City of Henderson is being used to flush out the equipment and pipelines associated with the pump stations and treatment plant. Since August 14, 2018, only periodic influent and effluent flows have occurred as a result of decommissioning operations, and NPDES-required samples were collected on those days, as applicable. Due to limited flows on those days, 6-part composite samples over 24-hours were not collected, but representative flow-based grab samples were collected and composited to represent the volume of water at each applicable permitted sample location. On most days since August 14, 2018, flow has been recirculated within the plant in a closed loop system to keep equipment in working order and no NPDES samples were collected.

NPDES Permit NV0024228 - 3rd Quarter 2018 - Backwash to Remix (Sample Location 002)
Analytical Summary

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
7/2/2018	002	Perchlorate	264	ug/l	19.0	ug/l	E314.0
7/16/2018	002	Perchlorate	77.5	ug/l	4.75	ug/l	E314.0
7/30/2018	002	Perchlorate	105	ug/l	4.75	ug/l	E314.0
8/6/2018	002	Perchlorate	181	ug/l	9.50	ug/l	E314.0
7/2/2018	002	Suspended solids (total)	211	mg/l	5.00	mg/l	SM2540D
7/16/2018	002	Suspended solids (total)	456	mg/l	6.67	mg/l	SM2540D
7/30/2018	002	Suspended solids (total)	318	mg/l	5.00	mg/l	SM2540D
8/6/2018	002	Suspended solids (total)	1190	mg/l	10.0	mg/l	SM2540D

Notes:

ug/l = micrograms per liter

mg/l = milligrams per liter

The weir dewatering treatment plant stopped receiving influent water from weir construction activities on August 14, 2018. Plant decommissioning started soon thereafter. Due to the lack of backwash waste water during plant decommissioning, samples were no longer collected from this location after August 14, 2018.

NPDES Permit NV0024228 - 3rd Quarter 2018 - Effluent (Sample Location 003)

Analytical Summary

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
7/2/2018	003	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3
7/16/2018	003	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3
7/19/2018	003	Ammonia (as N)	0.321	mg/l	0.100	mg/l	SM4500-NH3
7/30/2018	003	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3
8/6/2018	003	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3-D
8/28/2018	003	Ammonia (as N)	0.489 J	mg/l	0.100	mg/l	SM4500-NH3-D
9/12/2018	003	Ammonia (as N)	<0.100	mg/l	0.100	mg/l	SM4500-NH3-D
9/26/2018	003	Ammonia (as N)	0.256	mg/l	0.100	mg/l	SM4500-NH3
7/2/2018	003	Boron	1.30	mg/l	0.0250	mg/l	E200.7
7/16/2018	003	Boron	1.22	mg/l	0.0250	mg/l	E200.7
7/30/2018	003	Boron	1.19	mg/l	0.0250	mg/l	E200.7
8/6/2018	003	Boron	1.34	mg/l	0.0250	mg/l	E200.7
8/28/2018	003	Boron	1.37	mg/l	0.0250	mg/l	E200.7
9/12/2018	003	Boron	1.26	mg/l	0.0250	mg/l	E200.7
9/26/2018	003	Boron	1.12	mg/l	0.0250	mg/l	E200.7
7/2/2018	003	Dissolved Solids	2620	mg/l	10.0	mg/l	SM2540C
7/16/2018	003	Dissolved Solids	2630	mg/l	10.0	mg/l	SM2540C
7/30/2018	003	Dissolved Solids	2650	mg/l	10.0	mg/l	SM2540C
8/6/2018	003	Dissolved Solids	2800	mg/l	10.0	mg/l	SM2540C
8/28/2018	003	Dissolved Solids	2790	mg/l	10.0	mg/l	SM2540C
9/12/2018	003	Dissolved Solids	2710	mg/l	10.0	mg/l	SM2540C
9/26/2018	003	Dissolved Solids	2340	mg/l	10.0	mg/l	SM2540C
7/2/2018	003	Field pH	7.6	SU		SU	FIELD SAMPLING
7/9/2018	003	Field pH	7.6	SU		SU	FIELD SAMPLING
7/16/2018	003	Field pH	7.5	SU		SU	FIELD SAMPLING
7/30/2018	003	Field pH	7.6	SU		SU	FIELD SAMPLING
8/6/2018	003	Field pH	7.5	SU		SU	FIELD SAMPLING
8/28/2018	003	Field pH	7.7	SU		SU	FIELD SAMPLING
9/12/2018	003	Field pH	7.7	SU		SU	FIELD SAMPLING
9/26/2018	003	Field pH	7.8	SU		SU	FIELD SAMPLING
7/2/2018	003	Manganese	0.0339	mg/l	0.0150	mg/l	E200.7
7/16/2018	003	Manganese	0.0483	mg/l	0.0150	mg/l	E200.7
7/30/2018	003	Manganese	0.0394	mg/l	0.0150	mg/l	E200.7
8/6/2018	003	Manganese	0.0883	mg/l	0.0150	mg/l	E200.7
8/28/2018	003	Manganese	0.223	mg/l	0.0150	mg/l	E200.7
9/12/2018	003	Manganese	0.183	mg/l	0.0150	mg/l	E200.7
9/26/2018	003	Manganese	0.0456	mg/l	0.0150	mg/l	E200.7
7/2/2018	003	Nitrate as N	6.90	mg/l	0.110	mg/l	E300
7/16/2018	003	Nitrate as N	6.39 H	mg/l	0.0550	mg/l	E300
7/19/2018	003	Nitrate as N	5.64	mg/l	0.110	mg/l	E300
7/30/2018	003	Nitrate as N	5.01	mg/l	0.110	mg/l	E300
8/6/2018	003	Nitrate as N	6.93	mg/l	0.0550	mg/l	E300
8/28/2018	003	Nitrate as N	8.96	mg/l	2.75	mg/l	E300
9/12/2018	003	Nitrate as N	7.95	mg/l	0.550	mg/l	E300

NPDES Permit NV0024228 - 3rd Quarter 2018 - Effluent (Sample Location 003)

Analytical Summary

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
9/26/2018	003	Nitrate as N	8.00	mg/l	0.0550	mg/l	E300
7/2/2018	003	Nitrate as NO3	30.5	mg/l	0.500	mg/l	E300
7/16/2018	003	Nitrate as NO3	28.3 H	mg/l	0.250	mg/l	E300
7/19/2018	003	Nitrate as NO3	25.0	mg/l	0.500	mg/l	E300
7/30/2018	003	Nitrate as NO3	22.2	mg/l	0.500	mg/l	E300
8/6/2018	003	Nitrate as NO3	30.7	mg/l	0.250	mg/l	E300
8/28/2018	003	Nitrate as NO3	39.7	mg/l	12.5	mg/l	E300
9/12/2018	003	Nitrate as NO3	35.2	mg/l	2.50	mg/l	E300
9/26/2018	003	Nitrate as NO3	35.4	mg/l	0.250	mg/l	E300
7/2/2018	003	Nitrate Nitrite as N	6.90	mg/l	0.140	mg/l	NO2NO3_Calc
7/16/2018	003	Nitrate Nitrite as N	6.39	mg/l	0.0700	mg/l	NO2NO3_Calc
7/19/2018	003	Nitrate Nitrite as N	5.64	mg/l	0.110	mg/l	NO2NO3_Calc
7/30/2018	003	Nitrate Nitrite as N	5.01	mg/l	0.110	mg/l	NO2NO3_Calc
8/6/2018	003	Nitrate Nitrite as N	6.93	mg/l	0.0550	mg/l	NO2NO3_Calc
8/28/2018	003	Nitrate Nitrite as N	9.09	mg/l	2.75	mg/l	NO2NO3_Calc
9/12/2018	003	Nitrate Nitrite as N	7.99	mg/l	0.550	mg/l	NO2NO3_Calc
9/26/2018	003	Nitrate Nitrite as N	8.00	mg/l	0.0550	mg/l	NO2NO3_Calc
7/2/2018	003	Nitrite as N	<0.140	mg/l	0.140	mg/l	E300
7/16/2018	003	Nitrite as N	<0.0700	mg/l	0.0700	mg/l	E300
7/19/2018	003	Nitrite as N	<0.0500	mg/l	0.0500	mg/l	E300
7/30/2018	003	Nitrite as N	<0.0500	mg/l	0.0500	mg/l	E300
8/6/2018	003	Nitrite as N	<0.0250	mg/l	0.0250	mg/l	E300
8/28/2018	003	Nitrite as N	0.125 J	mg/l	0.0250	mg/l	E300
9/12/2018	003	Nitrite as N	0.0443 J	mg/l	0.0250	mg/l	E300
9/26/2018	003	Nitrite as N	<0.0250	mg/l	0.0250	mg/l	E300
7/2/2018	003	Perchlorate	3.94 J	ug/l	0.950	ug/l	E314.0
7/9/2018	003	Perchlorate	1.68 J	ug/l	0.950	ug/l	E314.0
7/16/2018	003	Perchlorate	1.90 J	ug/l	0.950	ug/l	E314.0
7/23/2018	003	Perchlorate	2.08 J	ug/l	0.950	ug/l	E314.0
7/30/2018	003	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
8/6/2018	003	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
8/13/2018	003	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
8/28/2018	003	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
9/12/2018	003	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
9/26/2018	003	Perchlorate	<0.950	ug/l	0.950	ug/l	E314.0
7/2/2018	003	Phosphorus (total)	<0.0250	mg/l	0.0250	mg/l	E365.3
7/16/2018	003	Phosphorus (total)	0.0340 J	mg/l	0.0250	mg/l	E365.3
7/30/2018	003	Phosphorus (total)	0.0392 J	mg/l	0.0250	mg/l	E365.3
8/6/2018	003	Phosphorus (total)	0.0684	mg/l	0.0250	mg/l	E365.3
8/28/2018	003	Phosphorus (total)	0.0536	mg/l	0.0250	mg/l	E365.3
9/12/2018	003	Phosphorus (total)	0.0383 J	mg/l	0.0250	mg/l	E365.3
9/26/2018	003	Phosphorus (total)	0.0426 J	mg/l	0.0250	mg/l	E365.3
7/2/2018	003	Suspended solids	7.00	mg/l	0.500	mg/l	SM2540D
7/9/2018	003	Suspended solids	9.00	mg/l	1.25	mg/l	SM2540D

NPDES Permit NV0024228 - 3rd Quarter 2018 - Effluent (Sample Location 003)
Analytical Summary

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
7/16/2018	003	Suspended solids	13.7	mg/l	0.500	mg/l	SM2540D
7/23/2018	003	Suspended solids	8.10	mg/l	0.500	mg/l	SM2540D
7/30/2018	003	Suspended solids	12.1	mg/l	0.500	mg/l	SM2540D
8/6/2018	003	Suspended solids	51.9	mg/l	0.667	mg/l	SM2540D
8/13/2018	003	Suspended solids	51.0	mg/l	0.833	mg/l	SM2540D
8/28/2018	003	Suspended solids	3.10	mg/l	0.500	mg/l	SM2540D
9/12/2018	003	Suspended solids	5.80	mg/l	0.500	mg/l	SM2540D
9/26/2018	003	Suspended solids	3.16	mg/l	0.526	mg/l	SM2540D
7/2/2018	003	Total Inorganic	6.90	mg/l	0.500	mg/l	NTOTAL
7/16/2018	003	Total Inorganic	6.39	mg/l	0.500	mg/l	NTOTAL
7/19/2018	003	Total Inorganic	5.96	mg/l	0.500	mg/l	NTOTAL
7/30/2018	003	Total Inorganic	5.01	mg/l	0.500	mg/l	NTOTAL
8/6/2018	003	Total Inorganic	6.93	mg/l	0.500	mg/l	NTOTAL
8/28/2018	003	Total Inorganic	9.58	mg/l	0.500	mg/l	NTOTAL
9/12/2018	003	Total Inorganic	7.99	mg/l	0.500	mg/l	NTOTAL
9/26/2018	003	Total Inorganic	8.26	mg/l	0.500	mg/l	NTOTAL

Notes:

mg/l = milligrams per liter

ug/l = micrograms per liter

SU = standard units

H = Sample was prepped or analyzed beyond the specified holding time.

J = Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value.

The weir dewatering treatment plant stopped receiving influent water from weir construction activities on August 14, 2018. Plant decommissioning started soon thereafter. Potable water from the City of Henderson is being used to flush out the equipment and pipelines associated with the pump stations and treatment plant. Since August 14, 2018, only periodic influent and effluent flows have occurred as a result of decommissioning operations, and NPDES-required samples were collected on those days, as applicable. Due to limited flows on those days, 6-part composite samples over 24-hours were not collected, but representative flow-based grab samples were collected and composited to represent the volume of water at each applicable permitted sample location. On most days since August 14, 2018, flow has been recirculated within the plant in a closed loop system to keep equipment in working order and no NPDES samples were collected.

**NPDES Permit NV0024228 - 3rd Quarter 2018 - End of Mixing Zone Ambient Wash Water Quality
Monitoring Point (Sample Location 004) Analytical Summary**

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>SQL</u>	<u>SQL Units</u>	<u>Method</u>
7/24/2018	004	Boron	0.53	mg/l	0.025	mg/l	E200.7
8/9/2018	004	Boron	0.458	mg/l	0.0250	mg/l	E200.7
9/12/2018	004	Boron	0.485	mg/l	0.0250	mg/l	E200.7
7/24/2018	004	Dissolved Solids (total)	1400	mg/l	5.0	mg/l	SM2540C
8/9/2018	004	Dissolved Solids (total)	1360	mg/l	5.00	mg/l	SM2540C
9/12/2018	004	Dissolved Solids (total)	1420	mg/l	5.00	mg/l	SM2540C
7/24/2018	004	Manganese	0.049	mg/l	0.015	mg/l	E200.7
8/9/2018	004	Manganese	0.0213	mg/l	0.0150	mg/l	E200.7
9/12/2018	004	Manganese	0.0286	mg/l	0.0150	mg/l	E200.7

Notes:

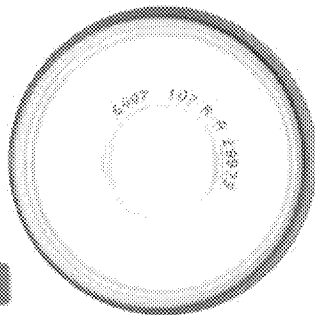
mg/l = milligrams per liter

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**ATTACHMENT 2
SUPPORTING ANALYTICAL REPORTS
(ON CD)**

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I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein, exceptions and corresponding justifications are provided in the tables.

Kimberly Kuwabara
Kimberly Kuwabara
CEM #2353, expires 3/20/19